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(54) **A heat and moisture exchange device**

(57) The invention is for a device that provides heat exchange and moisture exchange for use in heating and air conditioning systems. The device consists of a housing containing an assembly having a non-porous water-vapor-permeable polymeric heat and moisture exchange film (2). The non-porous water-vapor-permeable heat and moisture exchange film is interposed between an air stream having a higher water content and an air stream having a lower water content. The film prevents passage of air through it but readily passes water vapor through it, thereby effecting heat exchange and moisture exchange between the air streams.

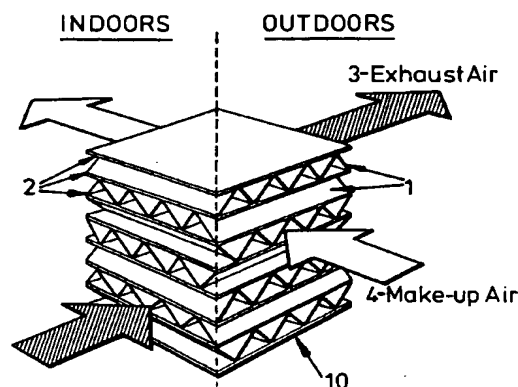


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 94 30 8263

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
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| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int.Cl.6) |
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| A,D | PATENT ABSTRACTS OF JAPAN vol. 4 no. 9 (M-89) ,23 January 1980 & JP-A-54 145048 (TEIJIN K.K.) 11 December 1979, * abstract * | 1 | |
| A | US-A-3 666 007 (YOSHINO ET AL.) * abstract; figures * | 1 | |
| | | | TECHNICAL FIELDS SEARCHED (Int. Cl.6) |
| | | | F24F |
| The present search report has been drawn up for all claims | | | |
| Place of search THE HAGUE | | Date of completion of the search 23 January 1996 | Examiner Gonzalez-Granda, C |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons * : member of the same patent family, corresponding document</p> | | | |

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